

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
GLOBAL D, LLC.	03/14/2014

RECEIVING PARTY DATA

Name:	RAKUTEN, INC.
Street Address:	4-12-3 HIGASHISHINAGAWA
City:	SHINAGAWA-KU, TOKYO
State/Country:	JAPAN
Postal Code:	140-0002

PROPERTY NUMBERS Total: 68

Property Type	Number
Patent Number:	5689575
Patent Number:	5777614
Patent Number:	6570588
Patent Number:	6917920
Patent Number:	7047195
Patent Number:	7130801
Patent Number:	7117223
Patent Number:	5864808
Patent Number:	7010650
Patent Number:	7133966
Patent Number:	7131013
Patent Number:	7280354
Patent Number:	7420802
Patent Number:	7136977
Patent Number:	7848611
Patent Number:	7123977
Patent Number:	7437585
Patent Number:	7120767
Patent Number:	7412578
Patent Number:	7225196
Patent Number:	7039707

PATENT

Property Type	Number
Patent Number:	7240188
Patent Number:	7613871
Patent Number:	7617255
Patent Number:	7574554
Patent Number:	7369406
Patent Number:	7562109
Patent Number:	7272693
Patent Number:	7716438
Patent Number:	7724677
Patent Number:	7949882
Patent Number:	7227746
Patent Number:	7681001
Patent Number:	7673168
Patent Number:	7650475
Patent Number:	7680983
Patent Number:	7685310
Patent Number:	7694037
Patent Number:	7724515
Patent Number:	7609083
Patent Number:	7953574
Patent Number:	7643722
Patent Number:	7840820
Patent Number:	7827193
Patent Number:	7849264
Patent Number:	7900013
Patent Number:	7774640
Patent Number:	7895161
Patent Number:	7908510
Patent Number:	7783922
Patent Number:	7769721
Patent Number:	7849058
Patent Number:	7904746
Patent Number:	7859839
Patent Number:	7516199
Patent Number:	7069380
Patent Number:	7293131
Patent Number:	7797477
Patent Number:	7411947
Patent Number:	8098654

PATENT

Property Type	Number
Patent Number:	7634625
Patent Number:	7818499
Patent Number:	7133282
Patent Number:	7849271
Patent Number:	7908446
Patent Number:	7624306
Patent Number:	7089453
Patent Number:	7305590

CORRESPONDENCE DATA

Fax Number: (858)715-6938

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.

Phone: 8587156858

Email: docketing@masuvalley.com

Correspondent Name: MASUVALLEY & PARTNERS

Address Line 1: 9635 GRANITE RIDGE DR., SUITE 100

Address Line 4: SAN DIEGO, CALIFORNIA 92123

ATTORNEY DOCKET NUMBER:	14015-803US
NAME OF SUBMITTER:	PETER MARTINEZ
SIGNATURE:	/Peter Martinez/
DATE SIGNED:	03/22/2014

Total Attachments: 6

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ASSIGNMENT

WHEREAS, Global D, LLC., hereinafter referred to as ASSIGNOR, a corporation having its principal place of business at **2-1-16 Kita-Ueno, MY Bldg., Suite 701, Taito-ku, Tokyo, 110-0014, Japan**, is, by virtue of assignments recorded at the United States Patent and Trademark Office, the owner of the entire right, title and interest in the invention(s) described and claimed in the following:

1. United States Letters Patent No.: 5689575
Entitled: Method and apparatus for processing images of facial expressions
2. United States Letters Patent No.: 5777614
Entitled: Editing support system including an interactive interface
3. United States Letters Patent No.: 6570588
Entitled: Editing support system including an interactive interface
4. United States Letters Patent No.: 6917920
Entitled: Speech translation device and computer readable medium
5. United States Letters Patent No.: 7047195
Entitled: Speech translation device and computer readable medium
6. United States Letters Patent No.: 7130801
Entitled: Method for speech interpretation service and speech interpretation server
7. United States Letters Patent No.: 7117223
Entitled: Method of interpretation service for voice on the phone
8. United States Letters Patent No.: 5864808
Entitled: Erroneous input processing method and apparatus in information processing system using composite input
9. United States Letters Patent No.: 7010650
Entitled: Multiple data management method, computer and storage device therefor
10. United States Letters Patent No.: 7133966
Entitled: Disk array device having spare disk drive and data sparing method
11. United States Letters Patent No.: 7131013
Entitled: Power supply control system and storage device for holding data just prior to the occurrence of an error
12. United States Letters Patent No.: 7280354
Entitled: Disk array device

13. United States Letters Patent No.: 7420802
Entitled: Disk array device
14. United States Letters Patent No.: 7136977
Entitled: Backup acquisition method and disk array apparatus
15. United States Letters Patent No.: 7848611
Entitled: Storage system and digital broadcasting system
16. United States Letters Patent No.: 7123977
Entitled: Production planning system
17. United States Letters Patent No.: 7437585
Entitled: Storage system and power control method therefor, adapter and power control method therefor, and storage controller and control method therefor
18. United States Letters Patent No.: 7120767
Entitled: Snapshot creating method and apparatus
19. United States Letters Patent No.: 7412578
Entitled: Snapshot creating method and apparatus
20. United States Letters Patent No.: 7225196
Entitled: Data conversion method and computer system therefor
21. United States Letters Patent No.: 7039707
Entitled: Disk subsystem, computer system, storage managing method and program
22. United States Letters Patent No.: 7240188
Entitled: Storage system
23. United States Letters Patent No.: 7613871
Entitled: Storage system using a flash memory partitioned with write-once and rewritable blocks
24. United States Letters Patent No.: 7617255
Entitled: Storage system, storage control device and recovery point detection method for storage control device
25. United States Letters Patent No.: 7574554
Entitled: Storage system and data protection method therefor
26. United States Letters Patent No.: 7369406
Entitled: Disk array apparatus

27. United States Letters Patent No.: 7562109
Entitled: Connectivity confirmation method for network storage device and host computer
28. United States Letters Patent No.: 7272693
Entitled: Storage system and back-up method for storage system
29. United States Letters Patent No.: 7716438
Entitled: Storage system and back-up method for storage system
30. United States Letters Patent No.: 7724677
Entitled: Storage system and method for connectivity checking
31. United States Letters Patent No.: 7949882
Entitled: Storage session management system in storage area network
32. United States Letters Patent No.: 7227746
Entitled: Storage system
33. United States Letters Patent No.: 7681001
Entitled: Storage system
34. United States Letters Patent No.: 7673168
Entitled: Network node, switch, and network failure recovery method
35. United States Letters Patent No.: 7650475
Entitled: Storage system and method for managing data using the same
36. United States Letters Patent No.: 7680983
Entitled: Method of restoring data by CDP utilizing file system information
37. United States Letters Patent No.: 7685310
Entitled: Computer system and dynamic port allocation method
38. United States Letters Patent No.: 7694037
Entitled: Information processing apparatus and command multiplicity control method wherein commands are sent from a host to a target using iSCSI control protocol
39. United States Letters Patent No.: 7724515
Entitled: Disk array apparatus
40. United States Letters Patent No.: 7609083
Entitled: Semiconductor integrated circuit device and storage apparatus having the same
41. United States Letters Patent No.: 7953574
Entitled: Methods and apparatuses for heat management in information systems

42. United States Letters Patent No.: 7643722
Entitled: Video storage system
43. United States Letters Patent No.: 7840820
Entitled: Storage system and method of controlling of feeding power to storage system
44. United States Letters Patent No.: 7827193
Entitled: File sharing system, file sharing device and file sharing volume migration method
45. United States Letters Patent No.: 7849264
Entitled: Storage area management method for a storage system
46. United States Letters Patent No.: 7900013
Entitled: Method and computer for determining storage device
47. United States Letters Patent No.: 7774640
Entitled: Disk array apparatus
48. United States Letters Patent No.: 7895161
Entitled: Storage system and method of managing data using same
49. United States Letters Patent No.: 7908510
Entitled: Storage system and method of designing disaster recovery constitution
50. United States Letters Patent No.: 7783922
Entitled: Storage controller, and storage device failure detection method
51. United States Letters Patent No.: 7769721
Entitled: Data recovery method in differential remote backup for a NAS system
52. United States Letters Patent No.: 7849058
Entitled: Storage system determining execution of backup of data according to quality of WAN
53. United States Letters Patent No.: 7904746
Entitled: Information processing system and data recovery method
54. United States Letters Patent No.: 7859839
Entitled: Storage apparatus, fan device, and controller unit device
55. United States Letters Patent No.: 7516199
Entitled: Storage device managing system, method and program
56. United States Letters Patent No.: 7069380
Entitled: File access method in storage-device system, and programs for the file access

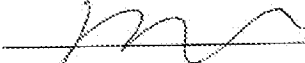
57. United States Letters Patent No.: 7293131
Entitled: Access to disk storage using file attribute information
58. United States Letters Patent No.: 7797477
Entitled: File access method in a storage system, and programs for performing the file access
59. United States Letters Patent No.: 7411947
Entitled: Storage system, computer system and interface module
60. United States Letters Patent No.: 8098654
Entitled: Storage system, computer system and interface module
61. United States Letters Patent No.: 7634625
Entitled: Storage system and method for copying volumes by inspection of data security
62. United States Letters Patent No.: 7818499
Entitled: Methods and apparatuses for heat management in storage systems
63. United States Letters Patent No.: 7133282
Entitled: Disk array device
64. United States Letters Patent No.: 7849271
Entitled: System and method for intrusion protection of network storage
65. United States Letters Patent No.: 7908446
Entitled: Copy system and method using differential bitmap
66. United States Letters Patent No.: 7624306
Entitled: Switch device, storage control system and trace data obtaining method
67. United States Letters Patent No.: 7089453
Entitled: Switch device, storage control system and trace data obtaining method
68. United States Letters Patent No.: 7305590
Entitled: Switch device, storage control system and trace data obtaining method

WHEREAS, Rakuten, Inc., hereinafter referred to as ASSIGNEE, a corporation duly organized under the laws of Japan and having its principal place of business at 4-12-3 Higashishinagawa, Shinagawa-ku, Tokyo, 140-0002, Japan, is desirous of acquiring the entire right, title and interest as held by ASSIGNOR in, to and under the said Letters Patents, and the inventions embodied therein;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: be it known that in consideration of a prior payment by ASSIGNEE to ASSIGNOR, the receipt of which is hereby acknowledged, and for other good and valuable consideration, ASSIGNOR hereby sells, assigns, and transfers to ASSIGNEE, its entire right, title, and interest in and to said Letters Patent(s) and the invention(s) therein, for the full term of the said Patents and any subsequent patents thereof.

IN WITNESS WHEREOF, the undersigned ASSIGNOR has hereunto set hand and seal this 14 day of March, 2014.

Assignor: **Global D, LLC.**

Signature of Representative: 

Name: Tsuyoshi Masutani

Title: Member